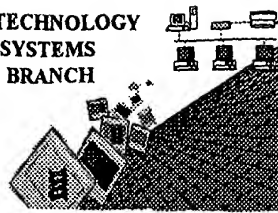


RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



2113
RECEIVED

MAR 07 2002

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/993,179A
Source: 1636
Date Processed by STIC: 2/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/993,179A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ✓ Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

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MAR 07 2002

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1636

RAW SEQUENCE LISTING

DATE: 02/21/2002

PATENT APPLICATION: US/09/993,179A

TIME: 11:37:48

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02212002\I993179A.raw

pg 1-4
Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: McCarthy, Sean A.
4 Kuranda, Michael Joseph
5 Bulawa, Christine Ellen
6 Bossone, Steven
8 <120> TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES ENCODING SIGNAL SEQUENCES
10 <130> FILE REFERENCE: 09404/032001
OK 12 <140> CURRENT APPLICATION NUMBER: US/09/993,179A
13 <141> CURRENT FILING DATE: 2001-11-06
15 <160> NUMBER OF SEQ ID NOS: 15
17 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

52 <210> SEQ ID NO: 2
53 <211> LENGTH: 50
54 <212> TYPE: PRT
55 <213> ORGANISM: Homo sapiens
57 <400> SEQUENCE: 2
58 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu
E--> 59 1 5 10 15
60 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg
E--> 61 20 25 30
62 Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser
E--> 63 35 40 45
64 Pro Ser
65 50
112 <210> SEQ ID NO: 4
113 <211> LENGTH: 125
114 <212> TYPE: PRT
115 <213> ORGANISM: Homo sapiens
117 <400> SEQUENCE: 4
118 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala
E--> 119 1 5 10 15
120 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser
E--> 121 20 25 30
122 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
E--> 123 35 40 45
124 His Ile Met Glu His Leu Gln Gly Val Ile Asn Lys Pro Glu Ala Glu
E--> 125 50 55 60
126 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
E--> 127 65 70 75 80
128 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr

*misaligned amino
acid numbers -
see item 3 on
Error Summary
Sheet*

*same
error*

RAW SEQUENCE LISTING .

DATE: 02/21/2002

PATENT APPLICATION: US/09/993,179A

TIME: 11:37:48

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02212002\I993179A.raw

```

E--> 129      85      90      95
      130 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Glu Val Asn same
E--> 131      100     105      110
      132 Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser
E--> 133      115      120     125
      135 <210> SEQ ID NO: 5
      136 <211> LENGTH: 32
      137 <212> TYPE: PRT
      138 <213> ORGANISM: Mus musculus
      140 <400> SEQUENCE: 5
      141 Met Lys Gly Ala Cys Ile Leu Ala Trp Leu Phe Ser Ser Leu Gly Val
E--> 142      1      5      10      15 same
      143 Trp Arg Leu Ala Arg Pro Glu Thr Gln Asp Pro Ala Lys Cys Gln Arg
E--> 144      20      25      30
      146 <210> SEQ ID NO: 6
      147 <211> LENGTH: 45
      148 <212> TYPE: PRT
      149 <213> ORGANISM: Homo sapiens
      151 <400> SEQUENCE: 6
      152 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
E--> 153      1      5      10      15
      154 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr same
E--> 155      20      25      30
      156 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
E--> 157      35      40      45
      238 <210> SEQ ID NO: 14
      239 <211> LENGTH: 32
      240 <212> TYPE: PRT
      241 <213> ORGANISM: Homo sapiens
      243 <400> SEQUENCE: 14
      244 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu
E--> 245      1      5      10      15 same
      246 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg
E--> 247      20      25      30
      249 <210> SEQ ID NO: 15
      250 <211> LENGTH: 108
      251 <212> TYPE: PRT
      252 <213> ORGANISM: Homo sapiens
      254 <400> SEQUENCE: 15
      255 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala
E--> 256      1      5      10      15
      257 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser same
E--> 258      20      25      30
      259 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
E--> 260      35      40      45
      261 His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Glu Ala Glu Met
E--> 262      50      55      60
      263 Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr Asp
E--> 264      65      70      75      80

```

RAW SEQUENCE LISTING .
 PATENT APPLICATION: US/09/993,179A

DATE: 02/21/2002
 TIME: 11:37:48

Input Set : A:\PTO.VSK.txt
 Output Set: N:\CRF3\02212002\I993179A.raw

265 Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr His
 E--> 266 85 90 95
 267 Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
 E--> 268 100 105

same

FWI →

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

see next page for more errors

09/993,179A

4

<400> 1
ggggaccgtg tttgtggccc ccaagccggt gccccccatt ttggaactca gcgagtaggg 60
ggcggctctg gggaagtggc agggggcgca gcagctgctg cctccacttc cctagccagg 120
tgctgaagag gatcttcgga gccgctctgg cccccaggcg ctggatgact ggcaccagcg 180
ctcctcgcac ctgtgttggt gtgtgagact tgggctggag tgcccacgtg gctgtggagt 240
cagtgtgatt catgattgag gaaacgcgtc ctccatcctc tctctccttg gcactttcca 300
cacatgagga gaagaagagc ttctgtttag aagacacgtg cccagagtca gaggccctt 360
gcccacc atg aag gga acc tgt gtt ata gca tgg ctg ttc tca agc ctg 409
→ Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu

¹ ⁵ ¹⁰
move over - please align amino acids directly below
their respective codons.

(sample of global error)

Please correct all relevant sequences

VERIFICATION SUMMARY *

PATENT APPLICATION: US/09/993,179A

DATE: 02/21/2002

TIME: 11:37:49

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02212002\I993179A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:41 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:49 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
 L:59 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2 ✓
 M:332 Repeated in SeqNo=2
 L:81 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:85 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:89 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:93 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:97 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:101 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:105 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:109 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
 L:119 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4 ✓
 M:332 Repeated in SeqNo=4
 L:142 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5 ✓
 M:332 Repeated in SeqNo=5
 L:153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6 ✓
 M:332 Repeated in SeqNo=6
 L:209 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
 L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
 L:245 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14 ✓
 M:332 Repeated in SeqNo=14
 L:256 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15 ✓
 M:332 Repeated in SeqNo=15